

A- POSTFLIGHT INSPECTION

(MITTELE) - 19001.56

<u>U-2</u>

This inspection is basically a combination of requirements for checking equipment that requires daily or frequent verification of satisfactory functioning, plus requirements that prescribe searching for defects that become apparent after the aircraft is flown. It is intended that evidence of chafing, leaks, and similar conditions be discovered and corrected during the Postflight Inspection to preclude progression of such a relatively minor problem to a state that would require major maintenance to remedy the deficiency. The Postflight Inspection is, therefore, an important function that should be performed with care.

The intervals at which the Postflight Inspection will be accomplished are contained in applicable aircraft inspection systems directives.

ELECTRICAL POWER OFF

PREPARATION:

- 1. Fire extinguisher provided.
- 2. Landing gear downlock pins installed.
- 3. Wheels chocked.
- 4. Auxiliary static ground installed.
- 5. Dive flaps closed shutoff valve "OFF."
- 6. DD Form 781 for discrepancies.
- 7. Switches "OFF."
- 8. Necessary fairing, panels and access doors removed or opened; closed or reinstalled upon completion of the inspection.
 - 9. Dust excluder plugs and wing, empennage, canopy and pitot covers installed upon completion of the inspection.

ATRFRAME (SYSTEM NO. 3)

- 1. Aircraft for cleanliness.
- 2. Wings, fuselage, empennage and control surfaces for damage; drain holes for obstruction.
 - 3. Statis ground wire for security and positive contact with ground.
 - 4. Fairings, panels, and doors for damage and insecurity.
 - 5. Battery area for evidence of leakage or overflow of electrolyte.
- 6. Dive brakes track for cleanliness; flaps, tracks, and linkage for damage and insecurity; actuators, lines hoses, and connections for insecurity and evidence of leakage; lines and hoses for chatting and damage.

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- 7. Windshield and canopy for cleanliness, distortion, nicks, crazing, cracks, and scratches.
 - 8. All required Postflight entries made in applicable forms.
 - 9. Shoulder harnesses and safety belts for cleanliness.

LANDING GEAR (SYSTEM NO. 4)

- 1. Landing gear and wheels for damage and free of mud, grass and ice.
- 2. Shock struts for evidence of leakage; polished surfaces of shock struts and hydraulic pistons cleaned with cloth moistened in hydraulic fluid.
 - 3. Microswitches for cleanliness, damage, and insecurity.
- 4. Doors and actuating mechanism for damage, insecurity and evidence of improper adjustment.
 - .5. Wheels for evidence of overheating in area adjacent to brakes.
- 6. Tires for uneven wear, cuts or blisters; free of grease or oil; slippage marks for misalignment.
- 7. Accessible brake lines, hoses, connections and components for leakage with parking brakes "SET".
- 8. Accessible components, lines, hoses and connections for insecurity and evidence of leakage; lines and hoses for chaging and damage,
- 9. Brake system reservoir for required fluid level; filler plug for security.

HYDRAULIC PNEUMATIC (SYSTEM NO. 5)

l. Accessible components, lines, hoses, and connections evidence of leakage; lines and hoses for chafing and damage.

UTILITY (SYSTEM NO. 6)

- 1. Oxygen System and Components:
 - a. Recharge to 1850 psi.
- b. Regulator for steady flow by turning the pressure control knob about 90 degrees clockwise.
- c. Regulator system for leakage by ensuring that there is no audible escape of oxygen with diluter in "100% OXYGEN".
- d. Regulator diaphragn and mask-to-regulator tubing for leakage when a slight pressure is applied at the open end of the mask-to-regulator tube by blowing gently with diluter lever set at "100% OXYGEN"; set regulator diluter at "NORMAL OXYGEN" upon completion of tests.
 - e. Hose from regulators for tears, holes, kinks and insecurity.

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- f. Knurled coller and hose on regulator outlet elbows properly. tightened (point to suit user's convenience).
- g. Flow indicators for operation. (With regulator set at "100% OXYGEN", blinker should move freely with each normal breath from mask-to-regulator tubing).

POWER PLANT (SYSTEM NO. 7)

- 1. Exhaust cone for soot swirls and heat streaks indicating faulty fuel nozzles. (If found, inspect inner liners, nozzles and domes).
 - 2. Turbine wheel for broken buckets.
 - 3. Buckets for nicks and dents behand specified tolerance.
 - 4. Nozzle diaphragn blades for damage.
- 5. Engine for evidence of leakage; loose or missing nuts, bolts, studs, or clamps; proper safetying where required.
 - 6. Diaphragm and air seal assemblies for cracks and insecurity.

FUEL (SYSTEM NO. 8)

- 1. Exterior of aircraft for evidence of leakage.
- 2. Tanks serviced; tank filler necks and cap seals for damage or excessive wear; caps for proper seating.

OIL (SYSTEM NO. 9)

- 1. Engine reservoir for required servicing; filler cap for security.
- 2. Exterior of fuselage for evidence of leakage.
- 3. System components, lines, and hoses for damage; lines and hoses for chafing.

AIR INDUCTION AND EXHAUST (SYSTEM NO. 11)

- 1. Air intake ducts for damage and foreign material.
- 2. Tailpipe for cracks and distortion beyond permissible limits; tailpipe clamp and blankets for damage and insecurity.

ELECTRICAL (SYSTEM NO. 14)

1. Spare lamps and fuses available in holders.

INSTRUMENTS (SYSTEM NO. 15)

- 1, Pitot head and static plates for damage and insecurity.
- 2. Instruments, panels and brackets for damage and insecurity.

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- 3. Instrument cover glasses for cleanliness, cracks, and looseness; range, slippage and limit markings intact.
 - 4. Standby compasses for discoloration of fluid and evidence of bubbles.
 - 5. Thermocouple leads for damage and insecurity.

R & R (SYSTEM NO. 16)

- 1. Visually inspect the following items;
- a. Antenna lead-in for damaged insulators, proper spacing from surrounding objects, and insocurity of connections.
 - b. Plugs for proper insertion in jacks and receptacles.
 - c. Junction boxes and covers for damage.
- d. Headset and microphone cordage and plugs for damage and proper stowage.

REMARKS:

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SIGNATURE

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B-PREFLIGHT INSPECTION

ARTICLE NO. 353

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OCKPIT INTERNAL: (Continued)	MECH,	ŢŅ
3. Alchehol & rag in man case.		
14. Instruments for condition & cleanliness.		
15. Circuit breakers set or into white line.		
16. Seat belt & shoulder straps for condition & operation.		
17. Orygen system checked out. System pressure 1800 to 2000#		
cap installed, check out face heat,		
18. Warning lights for operation.		
19. Emergency battery for operation, check voltage with precis		
20. Seat for condition & operation.		
21. Interior lights for operation & security,		
22, Cockpit floor cleaned.		
23. All items cleared. CREW CHIEF:		
ÉQUIPMENT BAY:		
1. Peacan drained, flushed & valve closed.		
2. Cockpit regulators for cleanliness & condition.		
3. Control cables for freedom, operation & turnbarrels safet		
4. Equipment for security in hatch & bay.		
5. Lower hatch & seal for operation & condition of latching		
6. OK to install lower hatch.		
7. Lower hatch installed, latched and safetied,		
8. Check HF radio equipment for security.		
9. Upper hatch latching mechanism for operations.		
10. Pressure regulator safetied in flight position.		
11. OK to install upper hatch.		
12. Upper hatch installed, latched & safetied.		
13. All items cleared. CREW CHILEF:		
UPPER CROTCH BAY:		
1. Heat exchanger duct connections for security.		
2. Check for plumbing or anything riding structure,		
3. OK to close access door.		
4. Access door closed & secure.		
5 All items cleared. CREW CHIEF:		

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<u>, 1</u>	. R/H & L/H main ducts for cracks & cleanliness,	
2	R/H oil cooler duct for cracks & cleanliness.	ter ter
3	Check inlet guide vanes, compressor rotor & stator blades nicks or other evidence that the engine has ingested for	3 J 3 J
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1.	. All items cleared. CREW CHIEF:	
- 100	VG:	7 3
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-=	R/H wing for condition & cover plates secured.	
	R/H aileron & tab for security & condition.	
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9	하는 사람들은 사람들이 되었다. 그 사람들은 사람들은 얼마나 하는 것이 되었다.	V.
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12		77.3
13	L/H & R/H outboard fuel drain valves checked for water.	7 A
	All items cleared. CREW CHIEF:	-
in describe	FIACE	
]	External skin for condition.	· .
2	Ejector for condition.	
3	Dive flap (speed brakes) for condition & hydro leaks.	
4		
5	All cover plates secured on top of fuselage, fail pipe & turbine for cracks or evidence of foreign mat pressing through turbine.	er
7	All items cleared. CREW CHIEF:	
	EMNAGE:	Property of
osa, mari	Starlizer for condition.	
	Elevator & tab for condition & security,	,5

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Approved For Release 2000/09/14 CIA-RDP89B00551R000100060013-0 MECH. INSPERIMENT.

Elevator tab for serveaction. Vertical stabilizer for condition. Vent line open, Rudder for security & condition. Fillets for security & condition. CREW CHIEF: All items cleared. TAIL GEAR: 1. Doors for security. Tires for condition. Steering cables & brackets for condition & security.
Strut for condition & cleanliness, proper pressure is 33 extended or 3.75 inches compressed. Micro switch for security & condition, CREW CHIEF: All items cleared. MAIN GEAR & WELL Door for security & condition. Control cables for condition, turnbarrels safetied, Uplock release cable & spring secure Retract mechanism & cyl. for condition, Strut for condition, proper pressure or height & cleanli Pressure 180 psi extended or 4.5 inches compressed. Brakes for clearance & freedom of leaks. Tires for condition & pressure, 240 lbs. CREW CHIEF: All items cleared. ENGINE COMPARTMENT: Throttle for security & safety. Main & aux, fuel tank transfer valves open & safetied, Manual fuel shut off open & safetied, Main fuel strainer drained or checked for water Check accumulator pressure, 800 psi. Hydro Oil tank full. Electrical plugs secure & safetied. Fuel & oil lines secure & free of leaks. % Dive flap shut off valve safetied open. Approved For Release 2000/0944 CA Approv

ENGINE COMPARTMENT:		MECH, INSP.	
10. Engine side plates installed.			
11. OK to install aft lower engine co	ver & drain lines,		
12. All items cleared.	CREW CHIEF;		
FINAL SIGN OFF:			
l, Install lower enginé cover fwd. s	ection.		
2. Remove pitot airspeed cover,			
3. Remove main & tail gear down lock	pins.		
4. Install scissors pin in tail gear	£		
5. Fuel load / 035 Fuel added 2	PG5 Oil added O	Oil level	-
0xygen/900			
6. Ship released for flight	Date / 7 2 2 7 8	72 Time 08/00	*
o. bittp released for fittgit	Da Co	1 1110	
AIRCRAFT GENERAL:			
l. Elect and radio pre flight,			
2. Install and check special equipme	nt.		
3. Check Destr. circuit.	anyressyn Almanishin agonowas valumaning parameters		
l, Install and connect destr.	garinganinga kungano sistemusig pamahantan kung an apalining dalapinin da sistemusi sistemusi pada pada pada p		
5, Install upper hatch.	glandfull, genulagilheiteit "; de zillen nicht ober en zilgen mitte nitte nage smesen d.d. 1 - die		
6. Pilot enter cockpit.			
7. Pilot check cockpit,			
8. Start MA-2 on signal from pilot.	· ·		
9, Start engine,			
9, Start engine. 10, Disconnect MA-2.			
10. Disconnect MA-2.			
10. Disconnect MA-2. 11. Close canopy.			
10. Disconnect MA-2. 11. Close canopy. 12. Pull gear pins.	ide for take-of:		
10. Disconnect MA-2. 11. Close canopy. 12. Pull gear pins. 13. Pull chocks.	ide for take-of:		

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Install Pogo's.			et i di wegi e i i jijit			
. Tow aircraft to hang	ari					
Check with pilot to entered on 781-2.	assure al	l discrep	ancies h	ave been	\$ 	
. Correct discrepancie	5				<u></u>	
. All items cleared.	Marin Marin	CI	REW CHIEF	`:		
						25X1
		ENGINE R		22	OPERATION	
TE 19007 56 TE	ST PRE I	216/17				
TART 06:10 ST	ART		START		SRART	
TOP 06:25 ST	OP		STOP		STOP	
IME,			<u> </u>			
PM Idle 58 60 5 5%. Max. 91-95	50%					
ET TEMP. Idle 200-300 Max. 500-580	2900					
TUEL PRESS. Idle 15-20	17					
Max. 8-12	206					
START/ TOTALIZER		7				
END TOTALIZER	172					
CLAPSED TIME	1/5					•
LOADMETER .05-15	,05					
HYDRO. PRESS.	3000					And the second s
2800-3100	110					:
OIL PRESS. 40-50	and the second					
Max, 0-80		-				
ENGINE COMP. TEMP.	g lev dháyabban	<u> </u>				
AFT FUEL. TEMP.	g gr (despendente la					
PRESS. RATION 80% 1,2-1,6 Max, 2,2-2,5	1.2					
1.2-1.6 Max. 2.2-2.5	OK					
Thing of april	OK					
Pl. Lit	W18					

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